

a shift reaction unit for decreasing CO contained in the reformed gas, that was produced in said raw material reforming unit, by water-gas-shift reaction; and

a CO oxidation unit for further degreasing CO contained in the resultant reformed gas, that was treated in said shift reaction unit, by oxidation,

at least two units, said raw material reforming unit and said shift reaction unit contain different catalysts, and [said raw material reforming unit,] said shift reaction unit and said CO oxidation unit being arranged in a manner that said shift reaction unit and said CO oxidation unit can be indirectly heated by heat transfer from the heat source of said raw material reforming unit, and further said CO oxidation unit being arranged around said raw material unit.

Claim 6, line 1, change "any one of claims 3 to 5" to ---claim 5---.

Claim 7, line 1, change "5 or 6" to ---3---.

Claim 9, line 1, delete "or 8".

Claim 10, line 1, change "any one of claims 7 to 9" to ---claim 7---.

Claim 11, line 1, change "any one of claims 1 to 6" to ---claim 1---.

Claim 12, line 1, change "any one of claims 3 to 6" to ---claim 3---.

Claim 14, line 1, delete "or 13".

Claim 15, line 1, change "any one of claims 12 to 14" to ---claim 12---.

Claim 17, line 1, change "any one of claims 12 to 16" to ---claim 12---.

Claim 18, line 1, change "any one of claims 3 to 17" to ---claim 3---.

Claim 19, line 1, change "any one of claims 3 to 18" to ---claim 3---.

Claim 20, line 1, change "any one of claims 3 to 6" to ---claim 3---.

Claim 22, line 1, delete "or 21".

Claim 23, line 1, change "any one of claims 20 to 22" to ---claim 20---.

Claim 24, line 1, change "any one of claims 1 to 23" to ---claim 1---.

Claim 28, line 1, change "any one of claims 1 to 27" to ---claim 1---.

Claim 29, line 1, change "any one of claims 1 to 28" to ---claim 1---.

30. (Amended) A reforming apparatus comprising an integrated structure of four separate units, which comprises:

a combustion unit for generating heat by combustion of a fuel gas;

a reforming reaction unit for steam-reforming a raw material and producing a reformed gas containing hydrogen as a principal component;

a shift reaction unit for decreasing CO contained in the reformed gas, that was produced in said raw material reforming unit, by water-gas-shift reaction; and

a CO oxidation unit for further degreasing CO contained in the resultant reformed gas, that was treated in said shift reaction unit, by oxidation,

at least two units, said reforming reaction unit and said shift reaction unit containing different catalysts, said shift reaction unit and said CO oxidation unit being directly heated by heat transfer from the heat source of said raw material reforming unit, said CO oxidation unit being arranged around said reforming reaction unit, and said reforming reaction unit being directly heated by said combustion unit so that the temperature in said reforming reaction unit is controlled in the range of 400 to 1000°C, said shift reaction unit being indirectly heated by heat transfer from said combustion unit so that the temperature in said shift reaction unit is controlled in the range of 200 to 350°C, said